

SMP

motralec

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX
 Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48
 Demande de prix / e-mail : service-commercial@motralec.com
www.motralec.com



Single-channel closed impeller

General characteristics

- Single-channel closed impeller
- 3,0 kW ÷ 16,4 kW motor power
- 2 / 4 / 6 poles
- DN80 ÷ DN250 delivery port
- 53 ÷ 130 mm free passage

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals installed in series in inspectable oil sump and 1 (one) opposed graphite-alumina lip seal lubricated by the motor oil. Oil bath motor. Separate pump body. Series not available in explosion-proof version.

Applications

Designed for heavy-duty applications, they are generally used in wastewater treatment, residential and sewer plants and for the treatment of wastewater from public establishments. Suitable for pumping industrial sludges.

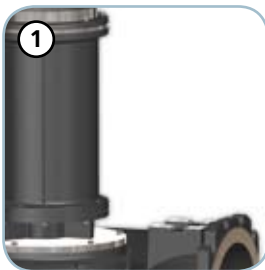
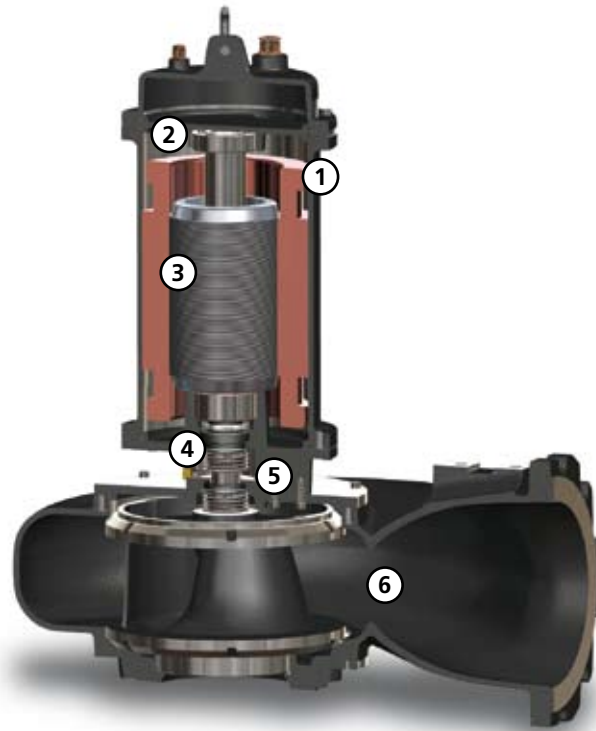
Construction materials

Case	Cast Iron EN-GJL 250
Impeller	Cast iron EN-GJL-250
Nuts and bolts	Stainless Steel - Class A2-70
Standard gasket	Rubber - NBR
Shaft	Stainless Steel - AISI 420
Cooling jacket	Carbon Steel - Fe360 ÷ Fe370
Set of standard mechanical seals	Two Silicon carbide mechanical seals (SiC) and One Carbon-Aluminium oxide mechanical seal (AL)

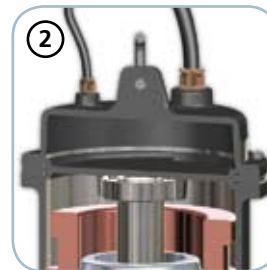
operating limits

Maximum operating temperature	40 °C
PH of treated fluid	6 to 10 pH
Viscosity of treated fluid	1 mm ² /s
Maximum immersion depth	20 m
Density of treated fluid	1 Kg/dm ³
Maximum acoustic pressure	70 dB
max starts per hour	20

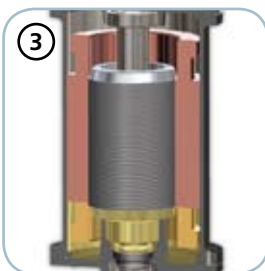
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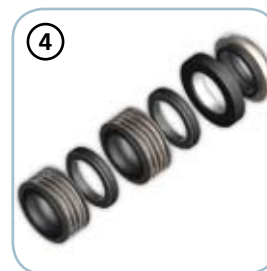
Structure
Constructed in GJL-250 cast iron



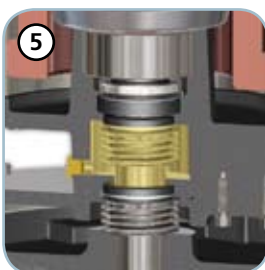
Bearings
Shielded ball bearings with lifetime lubrication



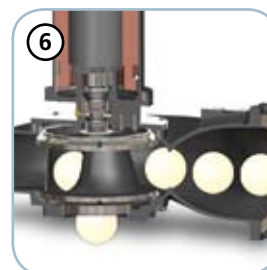
Motor
Oil-bath motor with thermal overloads



Mechanical seals
Two mechanical seals in silicon carbide (SiC) and one mechanical seal in alumina graphite (AL) for maximum reliability even in heavy-duty applications



Oil sump
Large oil sump to guarantee longer mechanical seal lifetime

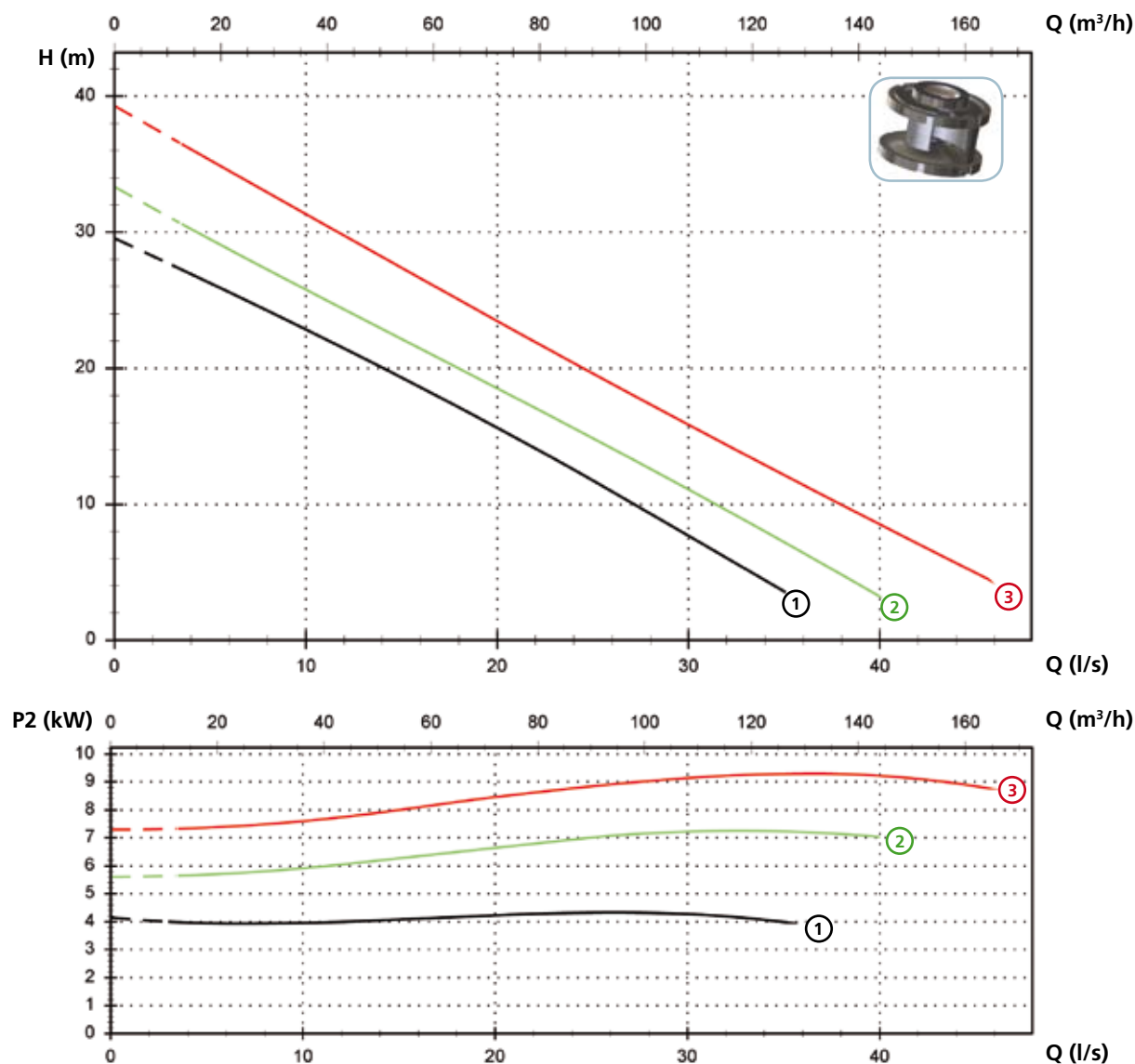


Free passage
Ample free passage allowing the expulsion of solids and preventing fouling of the impeller

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Models with horizontal DN80 PN10-16 flanged delivery port - 2 poles

Performances



Technical data

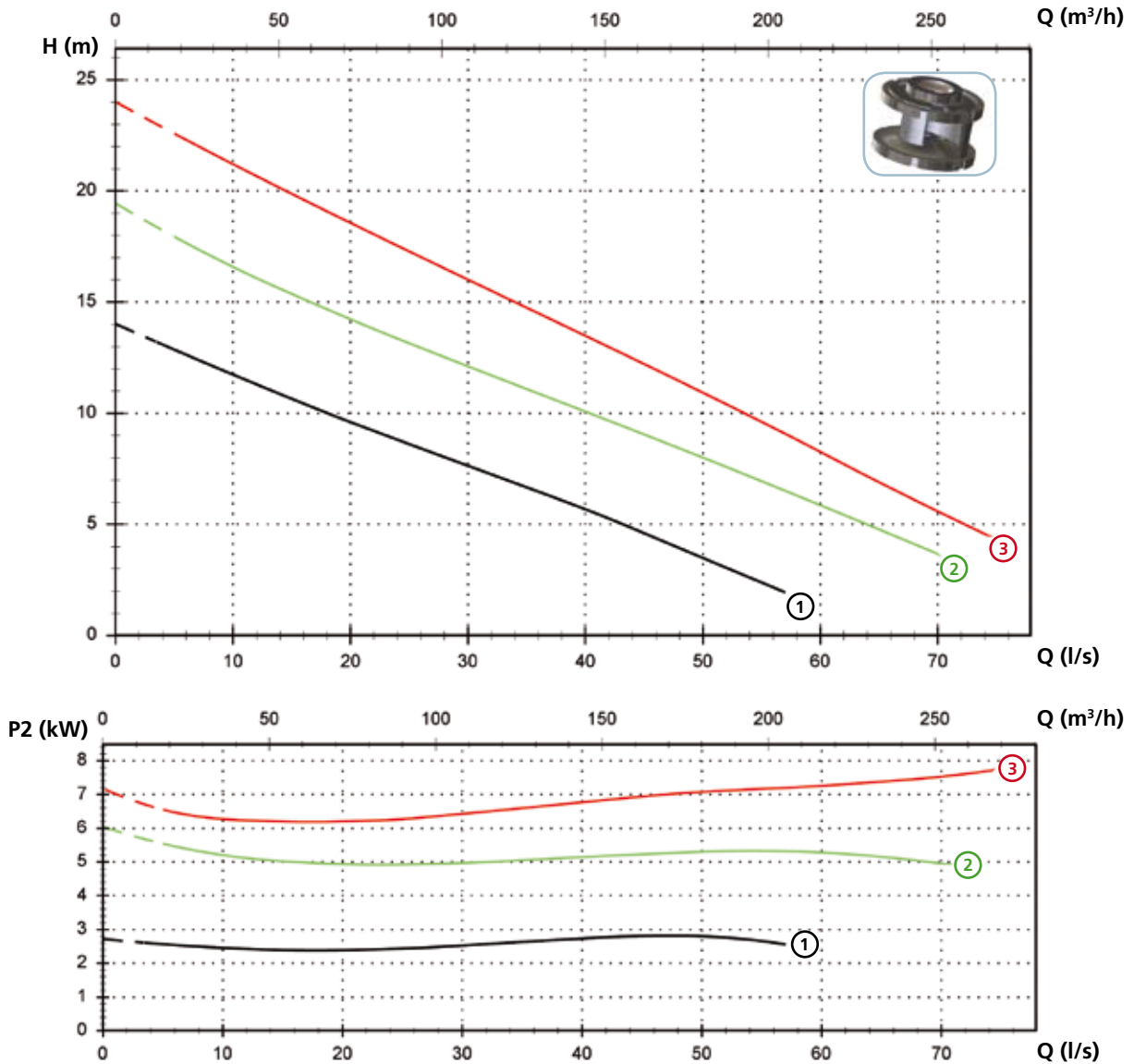
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① SMP 550/2/80 A0GT/50	400	3	6.8	5.5	11.5	2900	DN80 PN10-16	A	53 mm
② SMP 750/2/80 A0HT/50	400	3	8.9	7.2	14.5	2900	DN80 PN10-16	B	55x65 mm
③ SMP 1000/2/80 A0HT/50	400	3	12.4	10	19.8	2900	DN80 PN10-16	B	55x65 mm

(*) A = 07RN-F 4G2.5+3x1 - 10 m
 B = 07RN-F 7G1.5+3x0.75 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

Models with horizontal DN100 PN10-16 flanged delivery port - 4 poles

Performances



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① SMP 400/4/100 A0FT/50	400	3	4.1	3	7.9	1450	DN100 PN10-16	A	75x100 mm
② SMP 750/4/100 A0HT/50	400	3	8.6	6.5	14.9	1450	DN100 PN10-16	B	80x100 mm
③ SMP 1000/4/100 A0HT/50	400	3	11.5	8.9	20	1450	DN100 PN10-16	B	80x100 mm

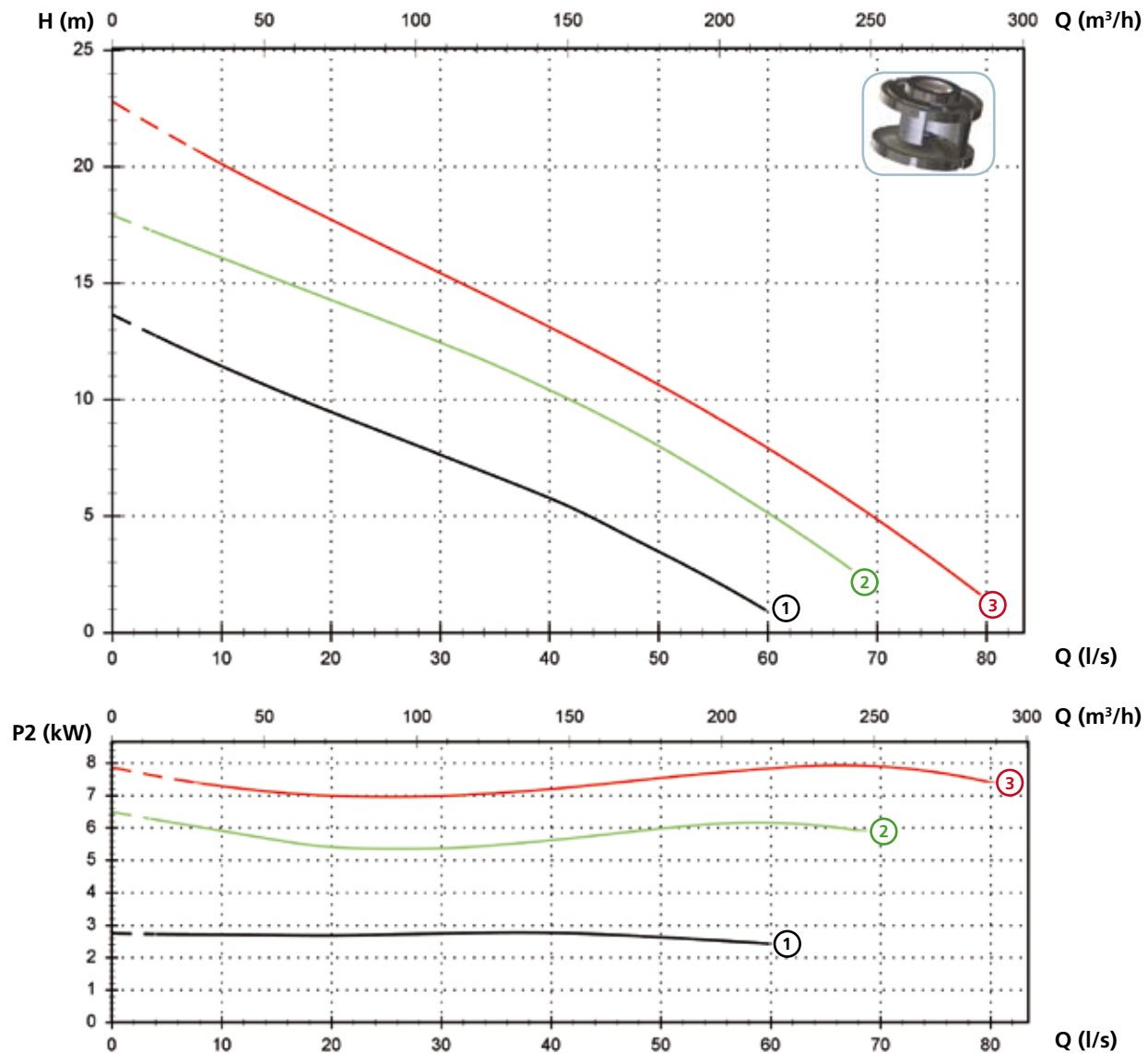
(*) A = H07RN-F 4G1.5 + H07RN-F 2G1 - 10 m
 B = 07RN-F 7G1.5+3x0.75 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

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Models with horizontal DN150 PN10-16 flanged delivery port - 4 poles

Performances



Technical data

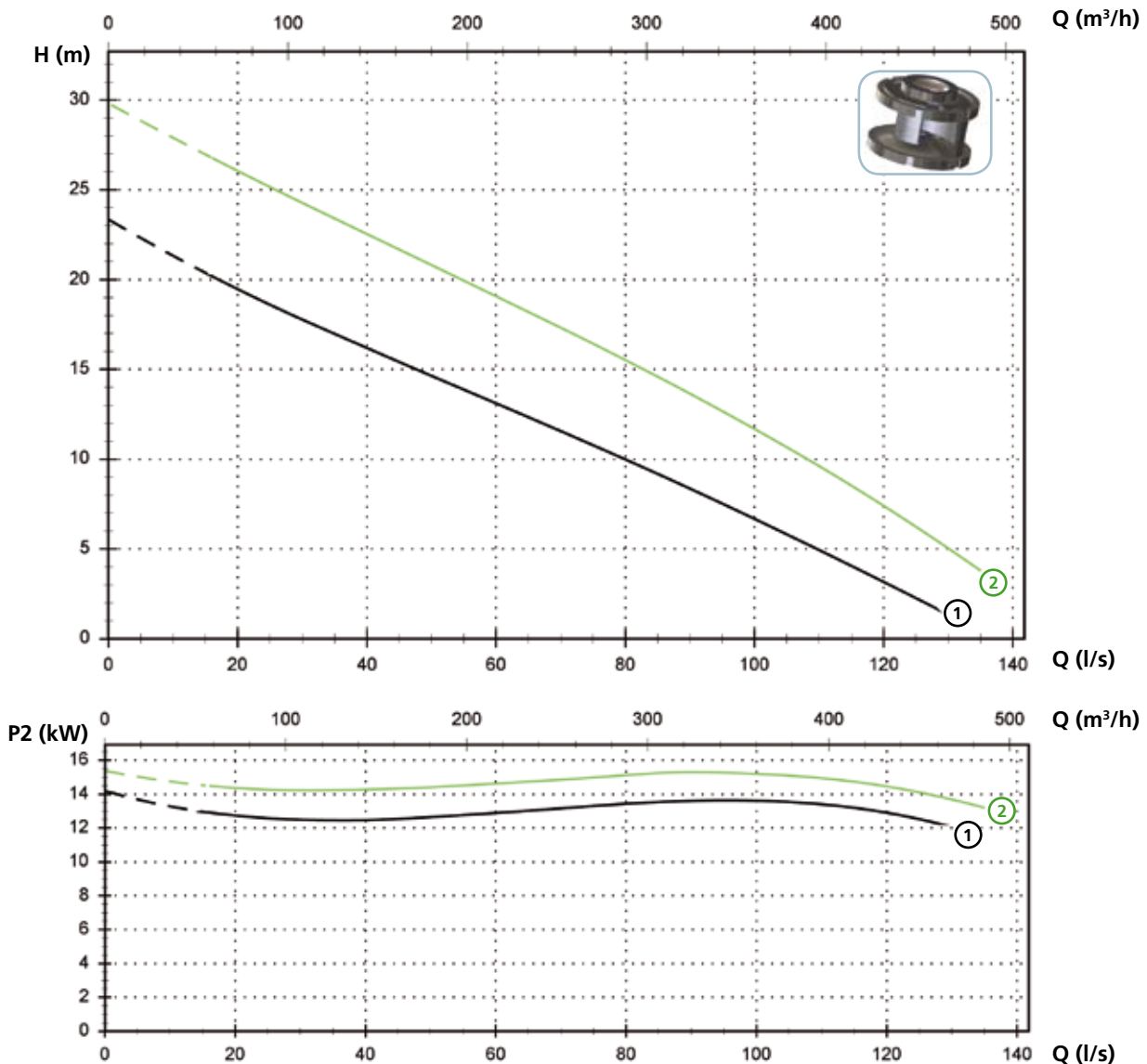
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① SMP 400/4/150 A0FT/50	400	3	4.1	3	7.9	1450	DN150 PN10-16	A	75x100 mm
② SMP 750/4/150 A0HT/50	400	3	8.6	6.5	14.9	1450	DN150 PN10-16	B	80x100 mm
③ SMP 1000/4/150 A0HT/50	400	3	11.5	8.9	20	1450	DN150 PN10-16	B	80x100 mm

(*) A = H07RN-F 4G1.5 + H07RN-F 2G1 - 10 m
 B = 07RN-F 7G1.5+3x0.75 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

Models with horizontal DN150 PN10-16 flanged delivery port - 4 poles

Performances



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① SMP 1500/4/150 A0IT/50	400	3	16.5	14.2	29.5	1450	DN150 PN10-16	A	100x130 mm
② SMP 2000/4/150 A0IT/50	400	3	20.7	16.4	36	1450	DN150 PN10-16	A	100x130 mm

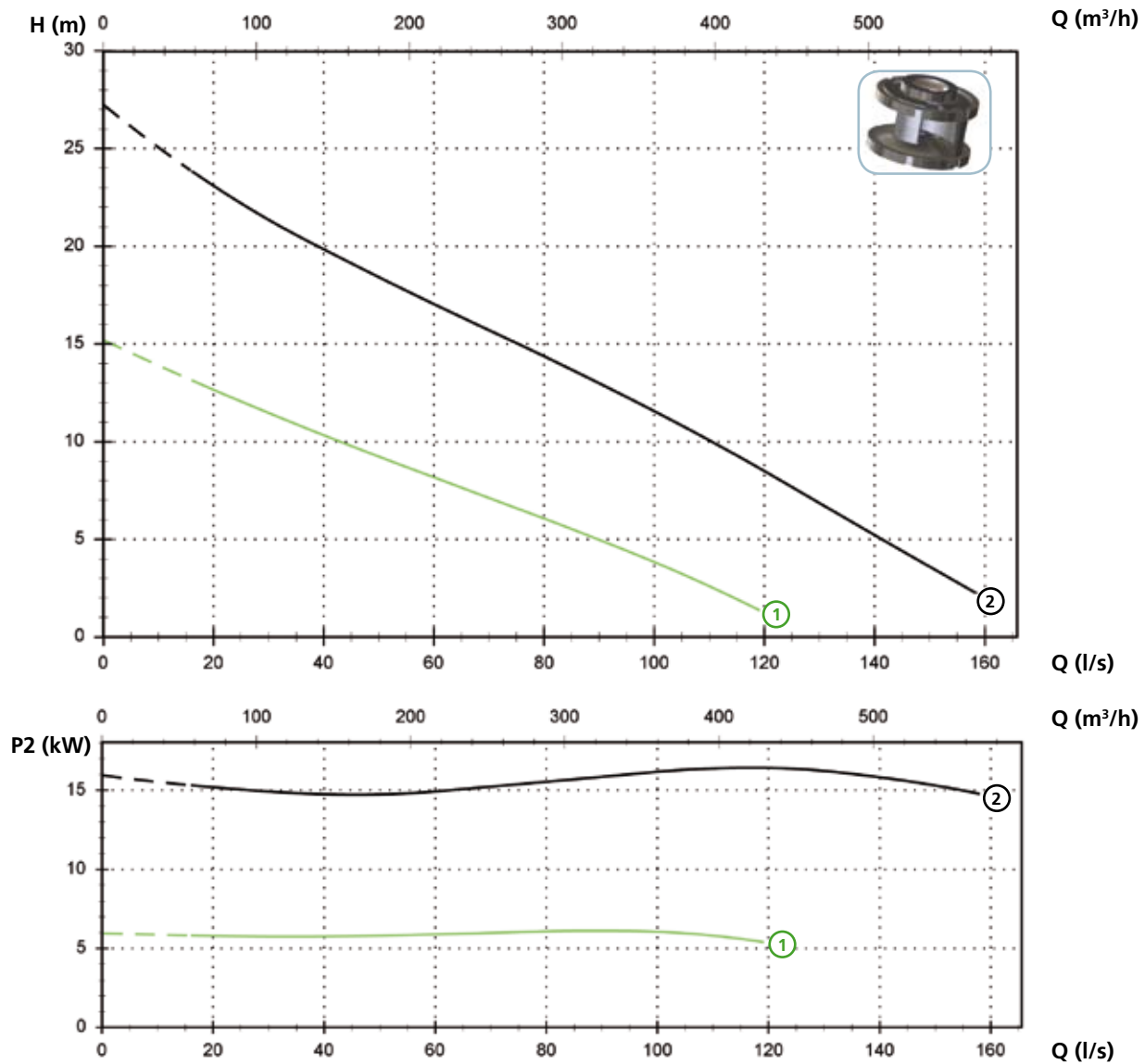
(*) A = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m



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Models with horizontal DN200 PN10 flanged delivery port - 4 poles

Performances



Technical data

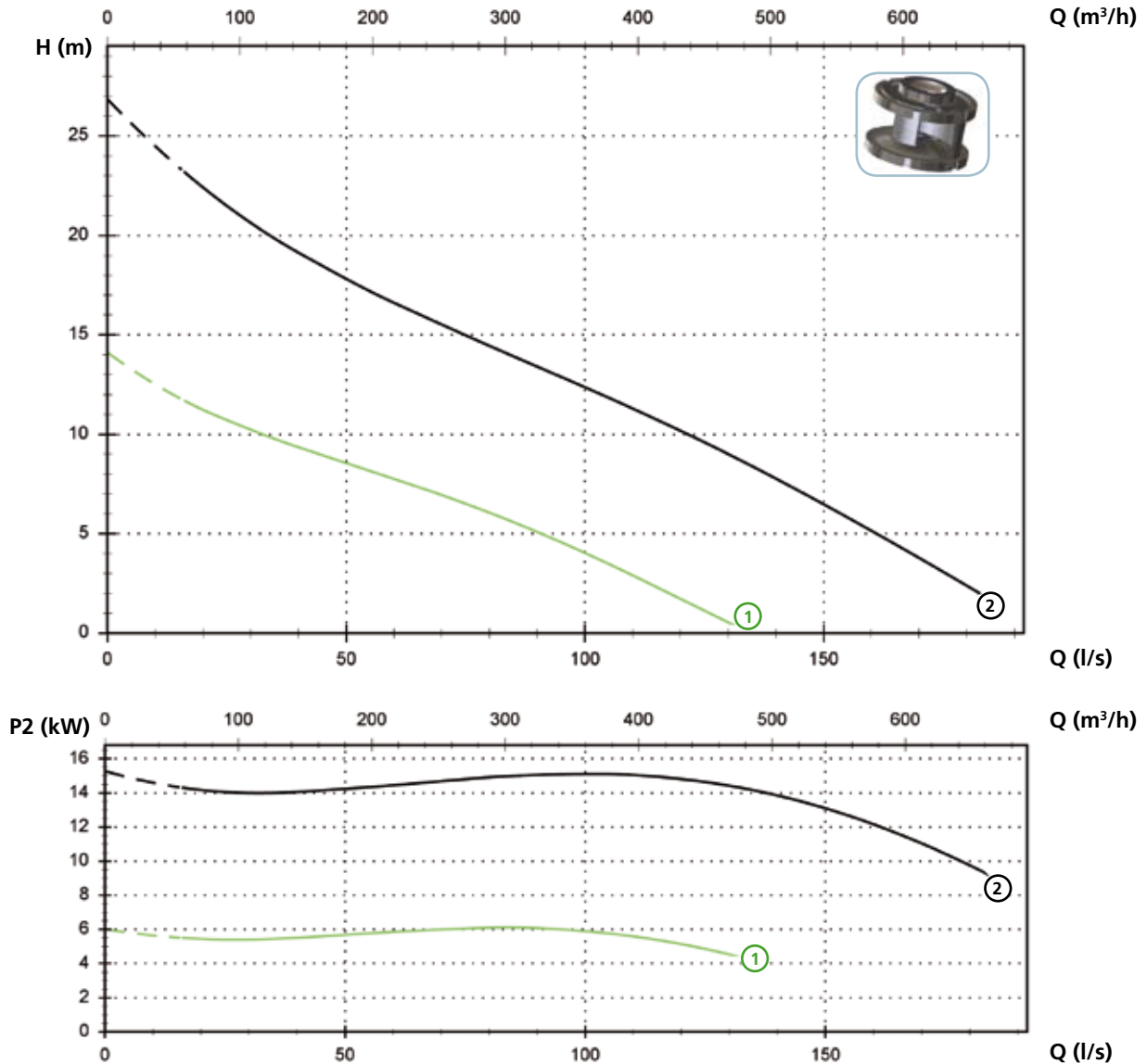
	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① SMP 2000/4/200A0IT/50	400	3	20.7	16.4	36	1450	DN200 PN10	A	100x130 mm
② SMP 750/6/200A0HT/50	400	3	7.8	6.1	15.2	960	DN200 PN10	B	100x130 mm

(*) A = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m
 B = 07RN-F 7G1.5+3x0.75 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

Models with horizontal DN250 PN10 flanged delivery port - 4 poles

Performances



Technical data

	V	Phases	P1 (kW)	P2 (kW)	A	Rpm	Ø	Cable (*)	Free passage
① SMP 2000/4/250 A0IT/50	400	3	20.7	16.4	36	1450	DN250 PN10	A	100x130 mm
② SMP 750/6/250 A0HT/50	400	3	7.8	6.1	15.2	960	DN250 PN10	B	100x130 mm

(*) A = H07RN-F 4G6 + H07RN-F 4G6 + H07RN-F 2G1 - 10 m
 B = 07RN-F 7G1.5+3x0.75 - 10 m

Electrical and mechanical features are equal to the cable H07RN-F

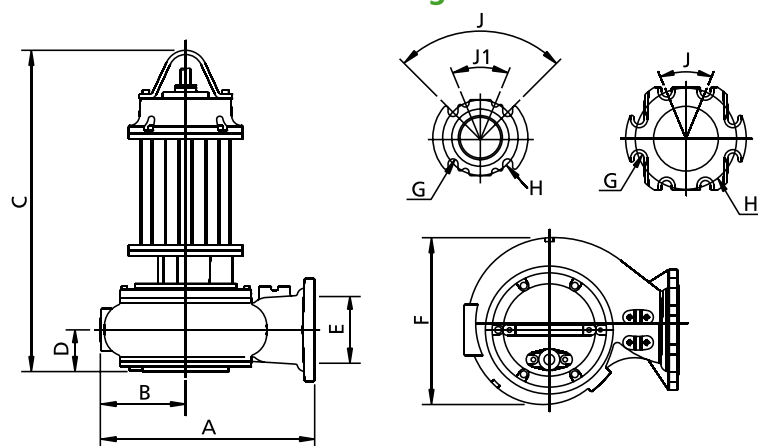
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Versions available

(Key to versions on page 15)

	Electrical variants											Cooling		Mechanical seals					
	N A E	T	T C D	T C D T	T C D G T	T C G	T C S T	T C S G T	T S	T R	T R G	F T	C G F T	N	CC	2SIC	SICM	SICAL	2SICAL
SMP 550/2/80 A0GT/50		●						●					●	●					●
SMP 750/2/80 A0HT/50		●						●					●	●					●
SMP 1000/2/80 A0HT/50		●						●					●	●					●
SMP 400/4/100 A0FT/50		●						●					●	●					●
SMP 750/4/100 A0HT/50		●						●					●	●					●
SMP 1000/4/100 A0HT/50		●						●					●	●					●
SMP 400/4/150 A0FT/50		●						●					●	●					●
SMP 750/4/150 A0HT/50		●						●					●	●					●
SMP 1000/4/150 A0HT/50		●						●					●	●					●
SMP 1500/4/150 A0IT/50		●						●					●	●					●
SMP 2000/4/150 A0IT/50		●						●					●	●					●
SMP 2000/4/200 A0IT/50		●						●					●	●					●
SMP 2000/4/250 A0IT/50		●						●					●	●					●
SMP 750/6/200 A0HT/50		●						●					●	●					●
SMP 750/6/250 A0HT/50		●						●					●	●					●

Overall dimensions and weights

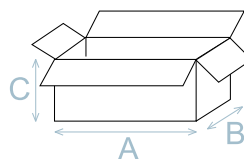


	A	B	C	D	E	F	G	H	J	J1	kg
SMP 550/2/80 A0GT/50	390	150	735	150	80	290	18	160	90°	45°	73
SMP 750/2/80 A0HT/50	390	150	795	150	80	295	18	160	90°	45°	76
SMP 1000/2/80 A0HT/50	390	150	795	150	80	295	18	160	90°	45°	110
SMP 400/4/100 A0FT/50	505	200	700	130	100	395	18	180	45°	-	81
SMP 750/4/100 A0HT/50	505	200	780	120	100	395	18	180	45°	-	132
SMP 1000/4/100 A0HT/50	505	200	760	100	100	395	18	180	45°	-	141
SMP 400/4/150 A0FT/50	507	200	700	130	150	395	24	240	45°	-	88
SMP 750/4/150 A0HT/50	505	200	780	120	150	395	24	240	45°	-	140
SMP 1000/4/150 A0HT/50	505	200	760	100	150	395	24	240	45°	-	150
SMP 1500/4/150 A0IT/50	650	255	955	140	150	505	24	240	45°	-	206
SMP 2000/4/150 A0IT/50	650	255	955	140	150	505	24	240	45°	-	252
SMP 2000/4/200 A0IT/50	695	275	970	145	200	540	24	295	45°	-	221
SMP 2000/4/250 A0IT/50	785	310	970	145	250	610	24	350	30°	-	229
SMP 750/6/200A 0HT/50	695	275	850	145	200	540	24	295	45°	-	190
SMP 750/6/250 A0HT/50	785	310	850	145	250	610	24	350	30°	-	198

Measurements in mm

Packaging dimension

	A	B	C
SMP 550/2/80 A0GT/50	915	515	555
SMP 750/2/80 A0HT/50	915	515	555
SMP 1000/2/80 A0HT/50	915	515	555
SMP 400/4/100 A0FT/50	725	445	415
SMP 750/4/100 A0HT/50	915	515	555
SMP 1000/4/100 A0HT/50	915	515	555
SMP 400/4/150 A0FT/50	915	515	555
SMP 750/4/150 A0HT/50	915	515	555
SMP 1000/4/150 A0HT/50	915	515	555
SMP 1500/4/150 A0IT/50	915	515	555
SMP 2000/4/150 A0IT/50	1165	720	685
SMP 2000/4/200 A0IT/50	1165	720	685
SMP 2000/4/250 A0IT/50	1165	720	685
SMP 750/6/200 A0HT/50	1165	720	685
SMP 750/6/250 A0HT/50	1165	720	685



Dimension in mm

Installations available

